

Department for Transport

Periodic Test Certificate No.	United Kingdom of Great Britain and Northern Ireland Carriage of Dangerous Goods by Rail and Road – RID/ADR
SF2638	Periodic Test Certificate Portable Tanks + UN Certified MEGCs

I/WE HEREBY CERTIFY delete as appropriate in a, b or c

a) that the Portable tank or UN certified MEGC¹ described below has been examined internally and externally and subjected to a hydraulic **PNEUMATIC** test at a pressure of 5.78 bar (gauge)². Operation of all service equipment on 10 June 2014 has been found satisfactory.

b) that the shell and equipment have been assembled and subjected together to a leakproofness test. 11/6/14

c) that the tank described below has been subjected to a vacuum reading with /without its jacket and insulation 11 June 2014

Signed: PAO-CHEN WU	Date: 17/14
Name and address of approved inspecting Body:	ABS Europe Ltd., 1 Frying Pan Alley, London, E1 7HR, United Kingdom

Details of Portable Tank.

Type-approval Number GB/PT	AB/259/89	Initial Approval Certificate No.	GB/AB-259/89
Name of Manufacturer and Serial No:		MINNESOTA VALLEY ENGINEERING INC. 112	
Owner's Serial Number:		Year of Manufacture:	1989
Vehicle Registration Mark or Chassis Number ³		N/A	
Tare MASS (including fittings) (kg):	17033		
Maximum Gross MASS (kg):	23383	Capacity (litres):	39807
Design Temperature (if above +50/C or below -20/C) (/C):		-452 F TO 100 F	

Pressure Relief Devices:	First Device	Second Device
Description (make, type):	Agco81S216-g	Agco81S216-g
Operating pressure (bar):	4.48	4.48
Capacity (m ³ /s):	649 scfm	649
Working pressure of tank (bar)	4.48	
Date of expiry of this certificate:	31/12/16	

Stamp of Inspecting Body authorised by the Department for Transport

¹ In special cases and with the agreement of the expert approved by the competent authority, the hydraulic pressure test may be replaced by a pressure test using another liquid or gas, where such an operation does not present any danger.

² For MEGCs, the test pressure used must accord with packaging Instruction P200 of 4.1.4.1

³ Where the certificate is required in respect of a trailer or semi-trailer the chassis number should be given.



AMERICAN BUREAU OF SHIPPING
Preliminary (to be faxed within 24 hours to responsible ABS Office)
REPORT ON 5 YEAR
PERIODIC INSPECTION OF TANK CONTAINER/PORTABLE TANK

Report: SF2638L

Date: 1 JULY 2014

Field Office: San Francisco

MANUFACTURER: MINNESOTA VALLEY ENGINEERING, INC. NEW PRAGUE, MINNESOTA

NAME PLATE DATA

OWNER'S OPERATING NUMBER	MANUFACTURER'S SERIAL NUMBER 112
MAX. GROSS WEIGHT 51,550 LB 23383 KG	TARE 37550 LB 17073 KG PAYLOAD 14,000 LB 6,350 KG
WATER CAPACITY 39,807 LIT 10,962 GAL	TEST PRESSURE 121 PSIG 8.4 BAR REF. TEMP. ZONE -268 TO 38 °C

INITIAL CERTIFYING AUTHORITY AB/259/89	US DOT SPECIFICATION E-7731 or UN	AAR - 600 <input type="checkbox"/>	TC <input type="checkbox"/>
DATE, PRESSURE OF INITIAL PRESSURE TEST 13 Feb 1989, 8.4 BAR 121 PSIG	IMO TYPE 7 and UN 1963 or UN	RTMD <input type="checkbox"/>	UIC <input type="checkbox"/>
DATE, PRESSURE OF PREVIOUS PRESSURE TEST 13 Feb. 1989, 8.4 BAR 121 PSIG	<input checked="" type="checkbox"/> HYDROSTATIC <input type="checkbox"/> PNEUMATIC	RID/ADR APPROVAL NUMBER GB/AB-259/89	BAM <input type="checkbox"/> FMM <input type="checkbox"/>
MAXIMUM ALLOWABLE WORKING PRESSURE 65 PSIG 4.48 BAR	CSC APPROVAL NUMBER 259/89/01	ISO Size Type Code	
TANK MATERIAL SA 240 T304 COMPARTMENTS 1 CONSTRUC. THICKNESS (HEADS) 8.432 MM CONSTRUC. THICKNESS (SHELL) 5.283 MM EQ. THICKNESS IN MILD or REFERENCE STEEL MM	EQUIPMENT BOTTOM DISCHARGE <input checked="" type="checkbox"/> NUMBER OF CLOSURES 2 TOP DISCHARGE <input type="checkbox"/> HEATER: <input type="checkbox"/> STEAM <input type="checkbox"/> ELECTRICAL <input type="checkbox"/>		

This is to certify that the undersigned Surveyor to this Bureau did, at the request of HELIXSO LLC to examine the above - mentioned container and report on the 5 year periodic inspection required by competent authorities. 9 June 2014 in order

The following inspections were conducted:	N/A	YES	SURVEYOR'S STAMPING
EXTERNAL INSPECTION OF TANK	<input type="checkbox"/>	<input checked="" type="checkbox"/>	AB 6 2014 MO. YR
INTERNAL INSPECTION OF TANK	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
EXAMINATION OF NOZZLES, DISCHARGE DEVICE	<input type="checkbox"/>	<input checked="" type="checkbox"/>	NEXT INSPECTION: 31 December 2016
EXAMINATION OF MANHOLE COVER AND GASKET	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
EXAMINATION OF TANK SADDLE SUPPORTS	<input type="checkbox"/>	<input checked="" type="checkbox"/>	MFR./SERIAL NOS. PRES. SETTING OF RELIEF VALVES: AGCO 88-14700 /14699 66 psi 1.5" dia. AGCO 88-11213/11214 66 psi 0.5" dia.i
EXAMINATION OF INSULATION	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
EXAMINATION OF FRAME	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Rated Flow Capacity 1.5"-649 scfm and 0.5" 63 scfm
EXAMINATION OF MARKINGS AND DATA PLATE(S)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
PRES. TEST OF HEATING COIL @ PSIG BAR	<input checked="" type="checkbox"/>	<input type="checkbox"/>	RUPTURE DISCS SETTING: 87 lb <input checked="" type="checkbox"/> IN PARALLEL <input type="checkbox"/> IN SERIES <input type="checkbox"/> N/A
PNEUMATIC TEST OF TANK @ 81.3 PSIG 5.78 BAR	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
HYDROSTATIC TEST OF TANK @ PSIG BAR	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
PRES. TEST OF RELIEF VALVES @ 66 PSIG 4.48 BAR	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

COMMENTS : PASSED INSPECTION
 The tank also comprise another compartment that intended to carry nitrogen which is needed to make the tank able to carry Helium.
Paul Chen Wu SURVEYOR

NOTE: This report evidences compliance with one or more of the Rules, Guides, standards or other criteria of American Bureau of Shipping and is issued solely for the use of the Bureau, its committees, its clients or other authorized entities. This report is a representation only that the tank container specified herein has been found to comply with one or more of the Rules or other criteria of American Bureau of Shipping. The validity, applicability and interpretation of this report is governed by the Survey, Report or Other Service Purchase Order and by the Rules and standards of American Bureau of Shipping who shall remain the sole judge thereof. Nothing contained in this report or in any report issued in contemplation of this report shall be deemed to relieve any designer, builder, owner, manufacturer, seller supplier, repairer, certifying authority, operator or other entity of any warranty express or implied.

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CHECK SHEET FOR RID/ADR PERIODIC INSPECTIONS

Tank Container Description¹ PORTABLE TNAK RID/ADR Approval No. GB/AB-259/89

Owners Operating No. 1 Manufacturer's Serial No. 112

Associated DfT Certificate No. SF2638 Date 1 July 2014

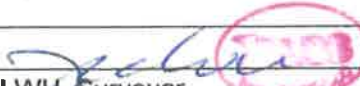
		REFERENCE	YES	NO	N/A
1.	It has been verified that the premises at which the periodic inspection is to be carried out has acceptable safety procedures in effect.	ABS Safety Manual Section 6	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2.	Where there is no evidence of safety procedures, or where unsafe conditions or procedures exist has a Premises Safety Report been completed by the Regional/District Safety Manager.	ABS Safety Manual Section 6.3.1	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
3.	It was confirmed that all test pressure gauges to be used for hydraulic testing, leakproofness testing and pressure relief valve (PRV) testing have been properly calibrated and in date ⁴ .	SWZ-002-99-P05 Section 4	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
4.	The tank container was subjected to a pneumatic test pressure ² of: 81.3 psi for: 10 mins Medium: Nitrogen Pressure at start of test: 81.3 psi Pressure at end of test: 81.3 psi	5 year test	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Test
5.	The tank container was subjected to a leak test pressure ² of: 16.3 psi for: 15 mins Medium: Nitrogen Pressure at start of test: 16.3 psi Pressure at end of test: 16.3 psi	2.5 & 5 year tests	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Test
6.	The steam heating system was subjected to a pressure ² test of: for: mins Medium: Pressure at start of test: Pressure at end of test: Section 4.3.10	SWZ-015-03-P03-W001	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Test
7.	No. 1 PRV was verified for: Opening Pressure: 66 psi Closing Pressure: 54 psi Opening Vacuum: Closing Vacuum:	SWZ-015-03-P03-W001 ³ Section 4.3.7	<input checked="" type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
8.	No. 2 PRV was verified for: Opening Pressure: 66 psi Closing Pressure: 55 psi Opening Vacuum: Closing Vacuum:	SWZ-015-03-P03-W001 ³ Section 4.3.7	<input checked="" type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
9.	Rupture Disc(s), where fitted, were confirmed in satisfactory condition & appropriately sized for products being carried.		<input checked="" type="checkbox"/>	<input type="checkbox"/>	
10.	Where a tank container is fitted with a bottom discharge it has been confirmed that each closure is independently tight under pressure and all valve operations were confirmed both locally and remotely.		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11.	A copy of each Test Pressure Gauge Calibration Certificate used for the pressure testing of items 4 thro' 8 above has been uploaded into the O2K work order or forwarded to the appropriate ABS office.		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Surveyor's Observations and/or Comments⁴

Test Pressure Gauge Number(s): Model PV 350 Ser. 9694 and date of last calibration: 4/25/2014

Model No. 162 Manufacturer: fluke

Item No. 6 The helium tank was vacuum tested for 10 minutes duration, witnessed and proven tight.


 PAO-CHEN WU Surveyor

¹ Type of tank as designated on data plate, e.g. Portable Tank (UN or IMO Type), (UN) MEGC etc.
² Pressures should be reported to two(2) decimal places and include unit of measurement.
³ Instructions contained in this P/I are equally pertinent, as applicable, to MEGCs.
⁴ All check sheet negative responses are to be further explained, as appropriate, in this section. Other observations or comments relative to the conduct of the test (including deviations from Code requirements on hydrotest fluid/pressure) and equipment used (including test gauge calibration dates) which may have a bearing on the final certification should also be included.